

Title (en)

METHOD AND PROCESS FOR CLEANING A PRODUCTGAS OF A GASIFICATION REACTOR

Title (de)

VERFAHREN UND VORRICHTUNG ZUR REINIGUNG EINES PRODUKTGASES AUS EINEM VERGASUNGSREAKTOR

Title (fr)

PROCEDE ET SYSTEME SERVANT A NETTOYER UN GAZ PRODUIT PAR UN REACTEUR DE GAZEIFICATION

Publication

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Application

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Priority

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Abstract (en)

[origin: WO0132808A1] The object of the invention is a method for purifying a productgas of a gasification reactor of tars and other organic compounds condensing out of the gas while it cools in a fluidized bed reactor acting as cracker. The invention is characterized in that the purification is accomplished in a spouted-bed reactor (1, 15), where the productgas (2) is fed into the reactor (1, 15) from at least one inlet point, beneath the inlet point of the productgas (2) is arranged a bubbling fluidized bed (5) that is maintained by an oxidizing gas (6) fed into the reactor (1, 15) and which forms a first zone, the productgas (2) forms above its inlet point a second or spouted zone, where fluidized particles (9) move along with the spout (8) and where purification is mainly accomplished, and above the spouted zone is arranged a third or equalizing zone, where the fluidized particles (9) are separated from the purified gas (12). An inventive object is even an equipment for carrying out the method.

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